[c8]

Claims

- [c1] A method for fabricating a rotor cup, said method comprising the step of stamping the rotor cup frame and forming an annular flange surrounding an opening of the rotor cup.
- [c2] A method in accordance with Claim 1 wherein said method of fabricating a rotor cup further comprises the step of machining the rotor cup to reduce vibration in the rotor cup.
- [c3] A method in accordance with Claim 2 wherein said method of machining the rotor cup further comprises the step of machining the annular flange to facilitate a desired level of rotor balance.
- [c4] A method in accordance with Claim 1 wherein said method of fabricating a rotor cup further comprises the step of connecting a plurality of weights to the annular flange to facilitate a desired level of rotor balance.
- [c5] A rotor cup assembly for an electric motor, said rotor cup assembly comprising a housing comprising a top, a bottom, a sidewall extending circumferentially from said top and having a first diameter, said sidewall and said top defining a cavity, and an annular flange extending circumferentially from said sidewall and having a first diameter, a second diameter, and a first thickness, said first diameter less than said second diameter.
- [c6] A rotor cup assembly in accordance with Claim 5 wherein said annular flange configured to have an edge, said edge outwardly flared from said sidewall by an angle ϕ .
- [c7] A rotor cup assembly in accordance with Claim 5 wherein said annular flange configured to receive a plurality of weights to facilitate a desired level of rotor balance.
 - A rotor cup assembly in accordance with Claim 5 wherein said annular flange machined to remove material from said annular flange such that said annular flange configured to achieve a desired level of rotor balance.

magnetic elements.

[c9]

A rotor cup assembly in accordance with Claim 5 wherein said annular flange